

## EAST Search History

S59	12456	((Failure or problem) near power ).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 11:59
S60	22	S58 and S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 12:02
S61	46244	"358".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 12:03
S62	15	S59 and S61	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 12:03
S63	885	714/15.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 16:41
S64	2116	(write or store) adj4 (validate or verify)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 16:40
S65	4	S63 and S64	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 16:41
S66	801	714/15.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 16:41
S67	92	S66 and (reconstruct or rebuild)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:27
S68	0	" reduce data rebuild time "	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:29
S69	6	" reduce rebuild time "	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 19:35
S70	13	("20020095616"   "20030145270"   "20030163777"   "5101492"   "5130992"   "5271012"   "5774643"   "5809224"   "5961652"   "6058489"   "6161192"   "6269453"   "6499039").PN. OR ("6898668").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 17:32
S71	10	("5608865"   "5664090"   "5828569"   "5848128"   "5974114"   "6085333"   "6189112"   "6202067"   "6205557"   "6308286").PN. OR ("6618819").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:10
S72	2	"6901533"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:10

## EAST Search History

S73	6	("20020035590"   "20020145983"   "5923833"   "6389551"   "6490693"   "6901533").PN. OR ("6990608").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:18
S74	1	"6618819"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:19
S75	5	"6516425"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:20
S76	2	("6516425").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:20
S77	10	("20020059539"   "5522031"   "5701407"   "6000039"   "6223300"   "RE36846").PN. OR ("6516425").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:21
S78	12	("4092732"   "4761785"   "4775978"   "4855907"   "4870643"   "5101492"   "5179704"   "5195100"   "5208813").PN. OR ("RE36846").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:28
S79	11	("5265098"   "5479653"   "5485571"   "5689678"   "5941994"   "5959860"   "6079029"   "6092215"   "6154853"   "6609213"   "RE36846").PN. OR ("6976187").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:33
S80	10	("20020059539"   "5522031"   "5701407"   "6000039"   "6223300"   "RE36846").PN. OR ("6516425").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 18:39
S81	25	("4464747"   "4870643"   "4942579"   "5208813"   "5233618"   "5321703"   "5390187"   "5495572"   "5522031"   "5564116"   "5649093"   "5889938").PN. OR ("6000039").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:07
S82	2	("6618819").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:08
S83	4	("6901533").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:08
S84	11	("5133053"   "5222217"   "5459864"   "5465328"   "5621884"   "5680539"   "5907673"   "6078944"   "6253212"   "6353834").PN. OR ("6901533").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:08
S85	17	("5072368"   "5278838"   "5446855"   "5537566"   "5542062").PN. OR ("5680539").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:11
S86	45	"5258984"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:12
S87	2	("5258984").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:12

## EAST Search History

S88	44	("5195100"   "5208813").PN. OR ("5258984").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:26
S89	2	("5412661").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:26
S90	36	("3725864"   "4993030"   "5148432"   "5303244").PN. OR ("5412661").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:32
S91	2	("0527838").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:33
S92	2	("5278838").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:33
S93	2	("5315602").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:34
S94	2	("5305326").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:34
S95	2	("5233618").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:35
S96	1	" reduce rebuild time " AND 714/6.CCLS.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 19:35
S97	26	("5155845"   "5206939"   "5263145"   "5269011"   "5611069"   "5742792"   "5812753"   "5892915"   "5893140"   "6041366"   "6076143"   "6098119"   "6115788").PN. OR ("6397292").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 19:36
S98	1685	714/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:28
S99	1349	714/6.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:28

## EAST Search History

S10 0	89792	714/6.ccls. (reconstruct\$4 or rebuild\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:29
S10 1	467	S99 and (reconstruct\$4 or rebuild\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:30
S10 2	459	S101 and storage	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:30
S10 3	276	S101 and storage.ab.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:30
S10 4	33	S103 and validat\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 17:30
S10 5	22	("5090014"   "5371882"   "5410439"   "5633767"   "5727144"   "5973870"   "6223252").PN. OR ("6598174").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 17:40
S10 6	13	("5089958"   "5269011"   "5485608"   "5530850"   "5544347"   "5555371"   "5604662"   "5604862"   "5673381"   "5742792"   "6202135").PN. OR ("6397309").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 18:00
S10 7	21	("5195100"   "5305326"   "5463765"   "5537567"   "5640506"   "5644767"   "5737344").PN. OR ("5889934").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 18:04
S10 8	8	("5220569"   "5392290"   "5644767"   "5751733"   "5872800"   "5889934"   "6061194"   "6192484").PN. OR ("6687850").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 18:06
S10 9	46	("5088081"   "5124987"   "5278838"   "5309451"   "5315602").PN. OR ("5463765"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 18:15
S11 0	32	("5195100"   "5208813"   "5233618"   "5235601"   "5301297"   "5303244"   "5345565"   "5388013"   "5390187"   "5390327"   "5412661"   "5455834"   "5459853"   "5463765"   "5469453"   "5475697"   "5504858"   "5506979"   "5522031"   "5528755"   "5581690"   "5615335"   "5621882"   "5640506"   "5778167").PN. OR ("5951691").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 18:23
S11 1	34	("4611314"   "4682328"   "4697266"   "4775978"   "4791622"   "4817004"   "4845632"   "4942579"   "4949326"   "4989206"   "5072378"   "5077736"   "5101492"   "5109505"   "5138710"   "5148432"   "5166936"   "5195100"   "5201044"   "5208813"   "5255270"   "5313585"   "5313626"   "5335235"   "5341493"   "5379411"   "5438575").PN. OR ("5778167").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 18:40
S11 2	2	("6516425").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:40

## EAST Search History

S11 3	2	("6976187").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:40
S11 4	2	("5208813").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:44
S11 5	2	("6154853").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:45
S11 6	2	("6092215").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:46
S11 7	2	("6079029").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:48
S11 8	2	("6000039").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:48
S11 9	2	("5701407").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:49
S12 0	2	("5522031").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:51
S12 1	2	("5321703").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:53
S12 2	2	("5680539").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:54

## EAST Search History

S12 3	2	("5258984").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:56
S12 4	2	("5412661").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:56
S12 5	2	("5951691").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:59
S12 6	2	("5812753").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:59
S12 7	2	("5961652").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 19:02
S12 8	2	("5623595").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 19:03
S12 9	2	("20050015653").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 19:04
S13 0	603	714/7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:29
S13 1	245	714/7.ccls. and storage.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:40
S13 2	200	714/7.ccls. and storage.ab.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:40

## EAST Search History

S13 3	219	("3588839"   "3623014"   "3771137"   "3835260"   "3866182"   "3936806"   "4020466"   "4057849"   "4084231"   "4094000"   "4124843"   "4150429"   "4161777"   "4193113"   "4204251"   "4249802"   "4342079"   "4361855"   "4368532"   "4384274"   "4396984"   "4430727"   "4453215"   "4464713"   "4523206"   "4523275"   "4530055"   "4577272"   "4594577"   "4598357"   "4608688"   "4618827"   "4634100"   "4638424"   "4686620"   "4698808"   "4707783"   "4710870"   "4726024"   "4727544"   "4736407"   "4751578"   "4755928"   "4769764"   "4771375"   "4773035"   "4779189"   "4782486"   "4783834"   "4785472"   "4797750"   "4805106"   "4807186"   "4814592"   "4823333"   "4831558"   "4837680"   "4841475"   "4849978"   "4862411"   "4866611"   "4879718"   "4916605"   "4949187"   "4958270"   "4959774"   "4960031"   "4974156"   "4985695"   "5003382"   "5007053"   "5016876"   "5029199"   "5051887"   "5060142"   "5060185"   "5072368"   "5083271"   "5087968"   "5088021"   "5089958"   "5093787"   "5097439"   "5099485"   "5101492"   "5109492"   "5123099"   "5127048"   "5132787"   "5134711"   "5140592"   "5146576"   "5146605"   "5155814"   "5155835"   "5155845"   "5157663"   "5157770"   "5159671"   "5170471"   "5170480"   "5175837"   "5175839"   "5185864"   "5185884"   "5201053"   "5202887"   "5206939"   "5210865"   "5212772"   "5212784"   "5235601"   "5235687"   "5235690"   "5235692"   "5239637"   "5239659"   "5257144"   "5263154"   "5269011"   "5274645"   "5276867"   "5276871"   "5285451"   "5307481").PN. OR ("5313664"   "5317731"   "5321826"   "5335352"   "5341493"   "5343477"   "5357509"   "5367698"   "5375232"   "5377342"   "5379412"   "5381539"   "5392390"   "5404500"   "5404508"   "5410667"   "5412668"   "5428796"   "5432922"   "5434994"   "5435004"   "5437022"   "5440727"   "5446872"   "5450577"   "5459857"   "5463752"   "5469503"   "5473776"   "5479654"   "5495601"   "5495606"   "5497483"   "5502811"   "5504888"   "5506986"   "5522031"   "5526484"   "5535381"   "5537533"   "5537585"   "5544345"   "5544347"   "5555371"   "5574950"   "5579318"   "5584039"   "5592618"   "5592660"   "5596706"   "5613106"   "5613155"   "5615329"   "5615364"   "5625818"   "5633999"   "5649089"   "5649152"   "5673382"   "5680580"   "5680640"   "5682396"   "5682513"   "5689732"   "5692155"   "5701429"   "5721916"   "5724500"   "5734813"   "5740397"   "5742792"   "5758149"   "5764972"   "5819310"   "5835954"   "5845295"   "5852715"   "5889935"   "5901327"   "5909483"   "5978565"   "5987566"   "6035412"   "6044444"   "6052797"   "6092066"   "6101497"   "6108748"   "6484187"   "6502205").PN. OR ("6647474").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:17
S13 4	235	spare and 714/7.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:19

## EAST Search History

S13 5	117	write near spare	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:21
S13 6	703	write near5 spare	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:21
S13 7	48	S136 and S130	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:21
S13 8	29	S136 and S130	USPAT; USOCR	OR	ON	2006/02/27 12:21
S13 9	13	("5208813"   "5321703"   "5390187"   "5495572"   "5522031"   "5564116"   "5649093").PN. OR ("5941993").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:43
S14 0	10	("5802264").URPN.	USPAT	OR	ON	2006/02/27 13:22
S14 1	16	("4899342"   "5072378"   "5124987"   "5134619"   "5155845"   "5159671").PN. OR ("5802264").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 13:24
S14 2	61	("4817035"   "4849929"   "4899342"   "4912698"   "5077736"   "5088081"   "5134619"   "5148432"   "5195100"   "5208813"   "5212784"   "5258984"   "5278838"   "5301297").PN. OR ("5357509").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 16:29
S14 3	366	714/7.ccls. and failure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:30
S14 4	1216	failure near storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:30
S14 5	6336	failure near4 storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:30
S14 6	94	S145 and S130	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:01
S14 7	6336	S145 and714/6.ccls	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:01
S14 8	6336	S145 and714/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:02
S14 9	396	S145 and 714/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:03



## EAST Search History

S15 0	309	S145 and 714/6.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:39
S15 1	274	S150 and write	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:40
S15 2	82174	S151 and recover\$4 or reconstruct\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:40
S15 3	240	S151 and (recover\$4 or reconstruct\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 17:41
S15 4	214	S151 and (recover\$4 )	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 20:19
S15 5	2	("20050015672").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 10:02
S15 6	2	("20050015673").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 10:03
S15 7	2	("20050015653").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 16:31
S15 8	0	("synchronizingadjheads").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 16:32
S15 9	105	synchronizing adj heads	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:37
S16 0	8879	write near4 simultaneously	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:34
S16 1	1	S159 and S160	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:34

## EAST Search History

S16 2	22	synchronizing adj heads and storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:11
S16 3	0	inhibit adj treshold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:12
S16 4	0	" write inhibit treshold"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:12
S16 5	0	inhibit near treshold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:12
S16 6	39	inhibit and treshold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:14
S16 7	212	"seek settle"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:17
S16 8	212	seek adj settle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:15
S16 9	172	S168 and storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:16
S17 0	31	S169 and failure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:16
S17 1	3	"seek settle algorithm"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:42
S17 2	64	initiate adj simultaneously	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:42
S17 3	14	initiate adj simultaneously and write	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:43

## EAST Search History

S17 4	29	initiate adj simultaneously and storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:43
S17 5	29	S172 and storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:43
S17 6	9	S175 and write	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:46
S17 7	174	synchronization adj heads	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:48
S17 8	46	S177 and storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:47
S17 9	52	(synchronization adj heads).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:48
S18 0	1010935	storage.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:49
S18 1	0	S179 and S180	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:49
S18 2	1210916	drives.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:49
S18 3	1	S179 and S182	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 11:00
S18 4	2	("5258984").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 11:01
S18 5	2	("5412661").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 11:09

## EAST Search History

S18 6	0	"714""."7".ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 11:10
S18 7	608	714/7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 11:10
S18 8	106	714/7.ccls.	US-PGPUB	OR	ON	2006/03/01 12:36
S18 9	261	707/203.ccls.	US-PGPUB	OR	ON	2006/03/01 12:43
S19 0	1376	707/203.ccls.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2006/03/01 12:43
S19 1	1166	writ\$4 same spares	US-PGPUB	OR	ON	2006/03/01 12:47
S19 2	1	S190 and S191	US-PGPUB	OR	ON	2006/03/01 12:46
S19 3	16422	writ\$4.ab.	US-PGPUB	OR	ON	2006/03/01 12:47
S19 4	18	S190 and S193	US-PGPUB	OR	ON	2006/03/01 12:54
S19 5	223	S190 and storage	US-PGPUB	OR	ON	2006/03/01 13:06
S19 6	0	"writing data on each spare storage"	US-PGPUB	OR	ON	2006/03/01 13:07
S19 7	17070	writing adj data	US-PGPUB	OR	ON	2006/03/01 13:08
S19 8	5	S197 same spare adj storage	US-PGPUB	OR	ON	2006/03/01 15:04
S19 9	2	("5889938").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:37
S20 0	2	("4464747").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:38
S20 1	2	("4870643").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:39
S20 2	118	("4870643").URPN.	USPAT	OR	ON	2006/03/01 13:42
S20 3	1	("6704838").URPN.	USPAT	OR	ON	2006/03/01 13:58
S20 4	118	("4870643").URPN.	USPAT	OR	ON	2006/03/01 14:42

## EAST Search History

S20 5	2	("6092215").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:03
S20 6	1	"4092732".PN.	USPAT; USOCR	OR	ON	2006/03/01 15:01
S20 7	1	"4775978".PN.	USPAT; USOCR	OR	ON	2006/03/01 15:01
S20 8	1	"4870643".PN.	USPAT; USOCR	OR	ON	2006/03/01 15:01
S20 9	1	"4914656".PN.	USPAT; USOCR	OR	ON	2006/03/01 15:02
S21 0	1	"4989206".PN.	USPAT; USOCR	OR	ON	2006/03/01 15:02
S21 1	1	"5072378".PN.	USPAT; USOCR	OR	ON	2006/03/01 15:02
S21 2	2	("5889938").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:10
S21 3	2	("5941993").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:12
S21 4	2	("6000039").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:12
S21 5	2	("4053752").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:13
S21 6	2	("4358848").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:14
S21 7	2	("4914656").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:14
S21 8	2	("4958351").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:15

## EAST Search History

S21 9	2	("5274799").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 15:19
S22 0	0	395/184.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 15:20
S22 1	2	("6161194").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 16:00
S22 2	402607	writing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:15
S22 3	71817	writing same storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:18
S22 4	16831	(writing same storage).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:16
S22 5	0	"wirting to each spare storeage"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:17
S22 6	0	"wirting to each spare storage"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:17
S22 7	2253865	writingwith storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:18
S22 8	48090	writing with storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:19
S22 9	0	writing with " each spare storage"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:19
S23 0	0	writing same "each spare storage"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:30

## EAST Search History

S23 1	0	writ\$4 near each	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:31
S23 2	0	write near each	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:31
S23 3	0	write near "to multiple"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:32
S23 4	0	write near "to multitude"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:36
S23 5	376	concurrent near write	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 16:43
S23 6	36	S235 and spare	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 17:01
S23 7	2	("6728851").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 17:01

## EAST Search History

S11	2	("6694453").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/28 15:12
S12	10	("4399538"   "4611289"   "5371873"   "5784628"   "5791790"   "6304981"   "6314502"   "6314528"   "6487521"   "6516440").PN. OR ("6694453").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/28 15:21
S13	618	714/15.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 11:06
S14	101	S13 and printer	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/28 15:22
S15	27852	printer.ab.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/28 15:22
S16	3	S13 and S15	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 09:59
S17	2	("4399538").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:00
S18	2	("4611289").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:00
S19	2	("5371873").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:03
S20	2	("5784628").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:32
S21	2	("5791790").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:33
S22	2	("6304981").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:38



## EAST Search History

S23	2	("6314502").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:39
S24	2	("6314528").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:41
S25	2	("6787521").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:41
S26	2	("6487521").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:42
S27	2	("6516440").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 10:44
S28	285	714/22.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:45
S29	41	S28 and printer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:45
S30	39	S28 and printer	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:45
S31	22778	"713".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 11:12
S32	157	S31 and printer.ab.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 11:07
S33	0	713/300-325	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 11:12
S34	68110	"713"/ (300-325).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 11:13
S35	369	S34 and printer.ab.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 11:13

## EAST Search History

S36	285	S34 and printer.ab.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:14
S37	7	powwer.ab.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:14
S38	108	pwer.ab.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:14
S39	1592034	power.ab.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:14
S40	23	S36 and S39	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:29
S41	1550	motegi	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:34
S42	954	motegi.in.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:35
S43	67	motegi.in. and printer	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:36
S44	44846	(akihiko motegi).in.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:37
S45	0	("akihiko motegi").in.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:37
S46	0	(akihiko adj motegi).in.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:37
S47	0	(akihiko adj motegi).in.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:38

## EAST Search History

S48	90	( motegi adj akihiko).in.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 11:38
S49	88	( motegi adj akihiko).in.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 12:11
S50	0	"358.clas"	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 12:11
S51	39212	"358".clas.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 12:12
S52	1270	S51 and (printer near S20 power).ab.	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 12:17
S53	365	S52 and (failure or problem or shutdown)	USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 13:04
S54	2	("20040153759").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 14:24
S55	2	("0664453").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 14:24
S56	2	("6694453").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 14:24
S57	2	("6694453").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 09:58
S58	88906	"399".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 11:58

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	'writing adj data"	US-PGPUB	OR	ON	2006/03/01 13:08
		'writing adj data" same "spare storage"	US-PGPUB	OR	ON	2006/03/01 13:08
		(stor\$4 same update\$3 or modif\$4 or verision\$4 or delet\$4 or add \$3 or writ\$4 ) same ( re-construct\$4 or reconstruct\$4) same (validat\$4 or verify\$4 or confirm\$4 or authenticat\$4)	US-PGPUB	OR	ON	2006/03/01 12:46
		707/203.ccls. and (stor\$4 same update\$3 or modif\$4 or verision\$4 or delet\$4 or add \$3 or writ\$4 ) same ( re-construct\$4 or reconstruct\$4) same (validat\$4 or verify\$4 or confirm\$4 or authenticat\$4)	US-PGPUB	OR	ON	2006/03/01 12:43
		("714.7.ccls.").PN.	US-PGPUB	OR	OFF	2006/03/01 11:10
		S169 with select\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 18:15
		(write near \$4 spare) and 714/7.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/27 12:20
		"714"".""24".ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:39
S2	335	714/24.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/28 10:19
S3	321	714/24.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/28 12:11
S4	513030	printers	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/28 12:11
S5	537422	S2 an S4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/28 12:12
S6	35	S2 and S4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/28 12:12
S7	3	("4855767"   "5055886").PN. OR ("5729268").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/28 12:23
S8	16	("4488303"   "4499581"   "4598355"   "4644541"   "4745542"   "4812677"   "4835761"   "4868817").PN. OR ("5068853").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/28 15:11
S9	2	"6694453"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/28 15:11
S10	0	("2004/0084971").URPN.	USPAT	OR	ON	2005/11/28 15:12